DEPARTMENT OF TRANSPORTATION
DIVISION OF ENGINEERING SERVICES
Office of Structural Materials
Quality Assurance and Source Inspection

Bay Area Branch
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Contract #: 04-0120F4
Cty: SF/ALA Rte: 80 PM: 13.2/13.9
File #: 69.15

SOURCE INSPECTION REPORT

Resident Engineer: Pursell, Gary
Address: 333 Burma Road
City: Oakland, CA 94607

Report No: SIR-000538
Date Inspected: 12-Apr-2009

Project Name: SAS Superstructure
Prime Contractor: American Bridge/Fluor Enterprises, a JV
Contractor: Zhenhua Port Machinery Company, Ltd (ZPMC), Changxing Island

OSM Arrival Time: 0
OSM Departure Time: 12
Location: Changxing Dao, Shangha

Quality Control Contact: ABF Paint Supervisor William (Bill) Gi
Quality Control Present: ☐ Yes ☑ No

Material transfer:	☐ Yes ☐ No ☑ N/A	**Sampled Items:**	☐ Yes ☐ No ☑ N/A
Stock Transfer:	☐ Yes ☐ No ☑ N/A	**OK to Cut:**	☐ Yes ☐ No ☑ N/A
Rebar Test Witness:	☐ Yes ☐ No ☑ N/A	**Delayed/Cancelled:**	☐ Yes ☐ No ☑ N/A

Other: Surface Preparation and Coatings Application
Bridge No: 34-0006
Component: OBG 2BW, Misc. Metal, Temp. Tower
Bid Item: 79
Lot No: B226

Summary of Items Observed:

On this date Caltrans Office of Structural Materials (OSM) Quality Assurance (QA) NACE III coating inspector, Mr. Donald Jordan arrived on site at the Zhenhua Port Machinery Company (ZPMC) facility at Changxing Island in Shanghai, China. The purpose of the coating inspections are to monitor the surface preparation and coating applications for the SAS Bay Bridge project. This QA NACE III coating inspector observed the following:
Miscellaneous Metal.
Caltrans QA Coatings Inspector Jordan went to structural assembly bay 5 to see where the bike path parts, handrails and cable tray work was being performed. These items have been coming into the blast shop requiring a tremendous amount of grinding repairs prior to blast acceptance and coating application. After the complaints from ZPMC and ABF QC personnel it appears that the fabrication crews are focusing a little more on grinding with the next batch of materials to be sent out to the blast shop.
The cable tray assemblies will need to pulled apart again and the faying surfaces repaired. Visually it appears that the angle iron was tac welded into place prior to match drilling the holes. When the weld was ground away, the coating on the faying surfaces was also removed. ABF QC was informed of the issue.
Some of the angles for the cable trays were abrasive blasted prior to assembly with no coating applied. ABF was reminded these parts would need to be solvent cleaned to remove the fingerprints and oil prior to abrasive blasting again.
OBG 2BW
Soluble salts tests were performed on the abrasive blasted areas of the interior and exterior of OBG 2BW. Caltrans QA Coatings Inspectors received a Notice of Inspection for to attend a joint inspection with ABF and ZPMC QC for residual chlorides (soluble salts) tests before abrasive blasting began. Residual Chlorides (soluble salts) tests were performed on abrasive blasted spots picked at random by Caltrans QA Inspectors. The test results showed

SOURCE INSPECTION REPORT

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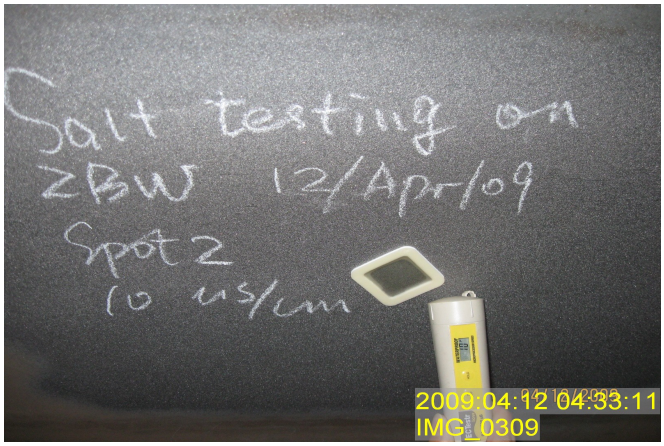
that the surfaces were acceptable to be abrasive blast cleaned. The highest registered reading of salts contamination was 20 micro Siemens per square centimeter which is below the contract maximum of 10 micrograms per square centimeter.
Temporary Tower
6 splices were abrasive blasted and primed.



Summary of Conversations:
There were no relevant conversations on this date.

Comments
This report is for the purpose of determining conformance with the contract documents and is not for the purpose of making repair or fit for purpose recommendations. Should you require recommendations concerning repairs or remedial efforts please contact Mazen Wahbeh (China) +8613472477571, who represents the Office of Structural Materials for your project.

Inspected By:	Jordan,Don	Quality Assurance Inspector
Reviewed By:	Carreon,Albert	QA Reviewer